ZXP Series 1 and ZXP Series 3

RHEL 6.5 Driver User's Manual

P1075318-001

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Getting Started

Introduction

The purpose of this document is describe how to install a Zebra ZXP Series 1and ZXP Series 3 printer driver for Red Hat Enterprise Linux (RHEL) in detail. The document provides information on installation of ZXP Series 1 and ZXP Series 3 Printer on RHEL 6.5 operating systems on 32-bit and 64 Bit environments.

Overview

The Zebra ZXP Series 1 and ZXP Series 3 printer driver for RHEL supports color printing, dual side printing, magnetic encoding, and provides information about the printer and ribbon details.

Prerequisite

The Zebra ZXP Series 1 and ZXP Series 3 printer driver for RHEL has been tested on the following distributions of Linux:

- Red Hat Enterprise Linux 6.5 32 bit
- Red Hat Enterprise Linux 6.5 64 bit

Extracting files using GUI

To install the Zebra ZXP Series 1 and ZXP Series 3 Printer Driver for RHEl by means of GUI, the user needs to be a root user.

Click on the Zebra ZXP3 Series Card Printer Driver-0.0.0.xx-Linux-x86-Install.tar archive file to untar the setup for installation of the driver to a desired directory location.

Note • In the FireFox web browser the setup will be downloaded inside the download. Right click *Open Containing folder*; Right click *Open with Archive Manager;* Right click *Extract* or click *Extract;* select the desired location; Click *Extract*.

Installation Wizard

Prerequisite

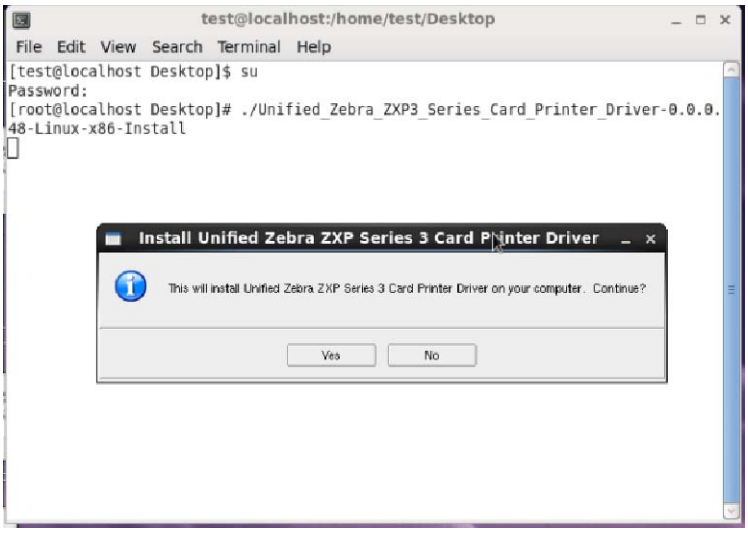
The installation can be performed only from terminal with administrator mode. Type the Administrator password when prompted.

Open the terminal by clicking the menu Applications—System Tools—Terminal

Navigate to the directory where the driver files are extracted and enter *su* in the terminal and press the **Enter** key.

Enter the root password when prompted

Type the following commands in the terminal:


test@localhost:/home/test/Desktop
File Edit View Search Terminal Help
[test@localhost Desktop]$ su
Password:
[root@localhost Desktop]# ./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.
48-Linux-x86-Install
Install Unified Zebra ZXP Series 3 Card Printer Driver
This will install Unified Zebra ZXP Series 3 Card Printer Driver on your computer. Continue?
Yes
No

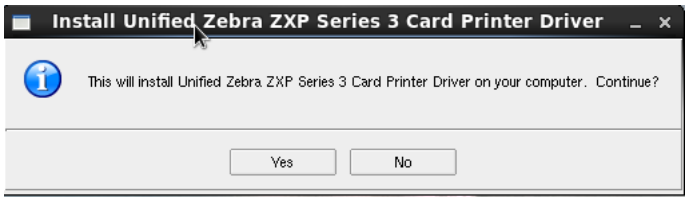
To install 64 bit driver

./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86_64-Install

To install 32 bit driver

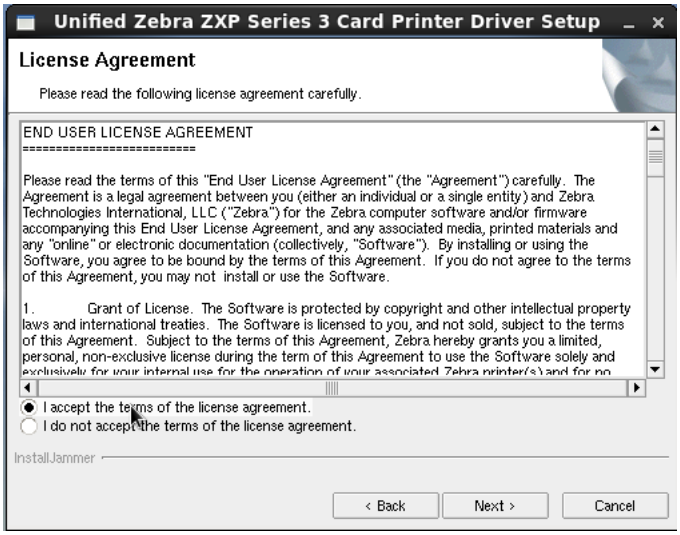
./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86-Install

To install the driver, click **Yes**; click **No** to cancel the installation.


Install Unified Zebra ZXP Series 3 Card Printer Driver
This will install Unified Zebra ZXP Series 3 Card Printer Driver on your computer. Continue?
Yes
No

The License Agreement page appears. Select the radio button next to *I accept the terms of the license agreement* to continue the installation and click **Next**.

Note • The license agreement must be accepted to continue installation. Selecting *I do not accept the terms of the license agreement* and clicking **Next** will cancel the installation; as will clicking **Cancel**.


Unified Zebra ZXP Series 3 Card Printer Driver Setup
License Agreement
Please read the following license agreement carefully.
END USER LICENSE AGREEMENT
Please read the terms of this "End User License Agreement" (the "Agreement") carefully. The Agreement is a legal agreement between you (either an individual or a single entity) and Zebra Technologies International, LLC ("Zebra") for the Zebra computer software and/or firmware accompanying this End User License Agreement, and any associated media, printed materials and any "online" or electronic documentation (collectively, "Software"). By installing or using the Software, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, you may not install or use the Software.
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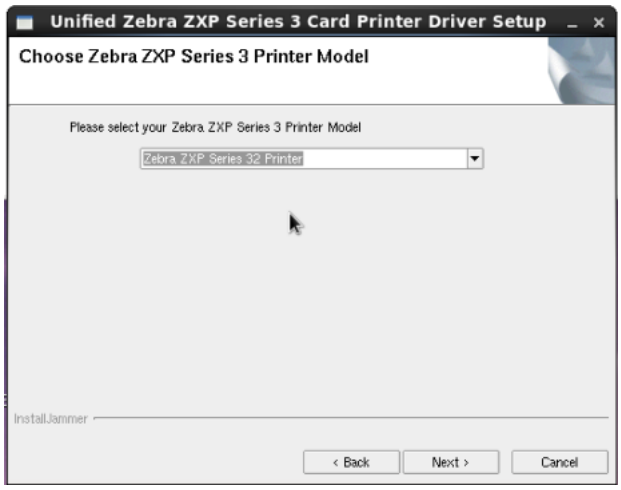
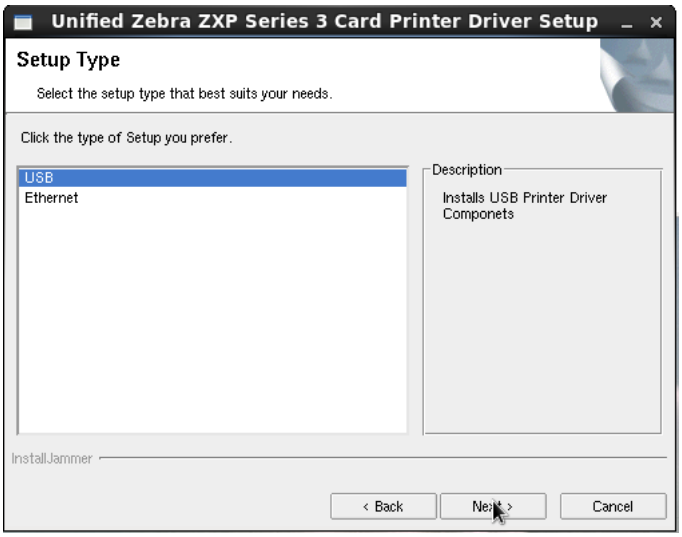
I accept the terms of the license agreement.
I do not accept the terms of the license agreement.
InstallJammer
< Back
Next >
Cancel

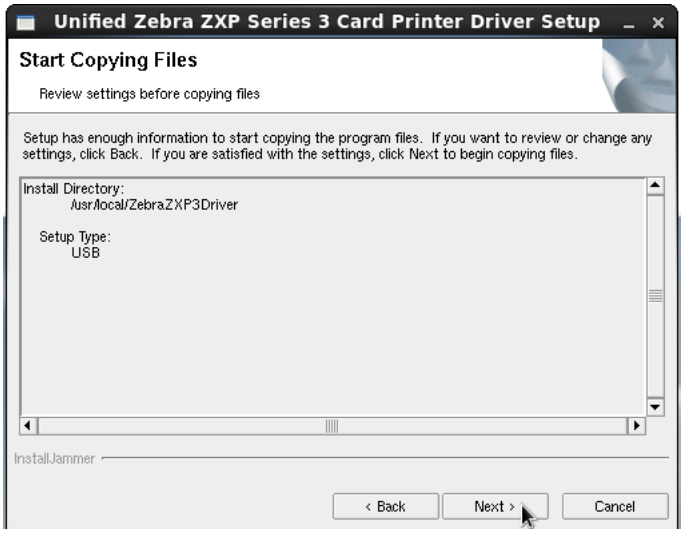
After accepting the license agreement, the *Printer Model* selection screen is displayed. From the pull-down menu, select the printer model to be installed and click **Next**.


Unified Zebra ZXP Series 3 Card Printer Driver Setup
Choose Zebra ZXP Series 3 Printer Model
Please select your Zebra ZXP Series 3 Printer Model
Zebra ZXP Series 3z Printer
InstallJammer
< Back
Next >
Cancel

Select the type of printer to be installed: USB or Ethernet.



USB Printer Driver Installation


Unified Zebra ZXP Series 3 Card Printer Driver Setup
Start Copying Files
Review settings before copying files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Install Directory:
/usr/local/ZebraZXP3Driver
Setup Type:
USB
InstallJammer
< Back
Next >
Cancel

Note • Do not plug in the USB Printer before the Installation is complete.

Upon selecting the USB printer type and clicking next, the installation progress will be displayed. The driver files will be copied into the following directories:

- /usr/lib/cups/filter/rastertozxp3
- /usr/lib/cups/filter/pstozxp3ps

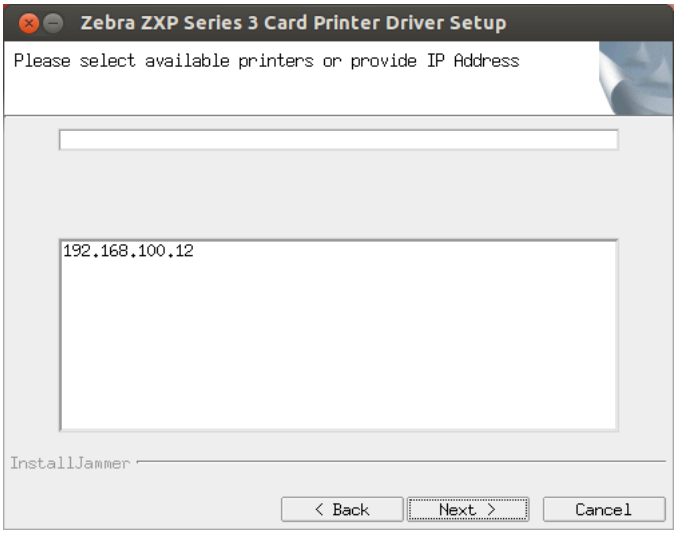
After the copying is complete, the final Install Jammer Wizard page shows that the driver has been installed successfully.

Unified Zebra ZXP Series 3 Card Printer Driver Setup
InstallJammer Wizard Complete
The InstallJammer Wizard has successfully installed Unified Zebra ZXP Series 3 Card Printer Driver. Click Finish to exit the wizard.
< Back
Finish
Cancel

Click **Finish** into complete the installation and exit the Installer.

Ethernet Printer Driver Installation

Upon selecting the Ethernet printer type and clicking **Next**, a window will display the IP addresses of the connected ZXP Series 3 card printers.



Select the IP address of the printer and click **Next**. The driver files will be copied into the following directories:

- /usr/lib/cups/filter/rastertozxp3
- /usr/lib/cups/filter/pstozxp3ps
- /usr/local/ZebraZXP3Driver/

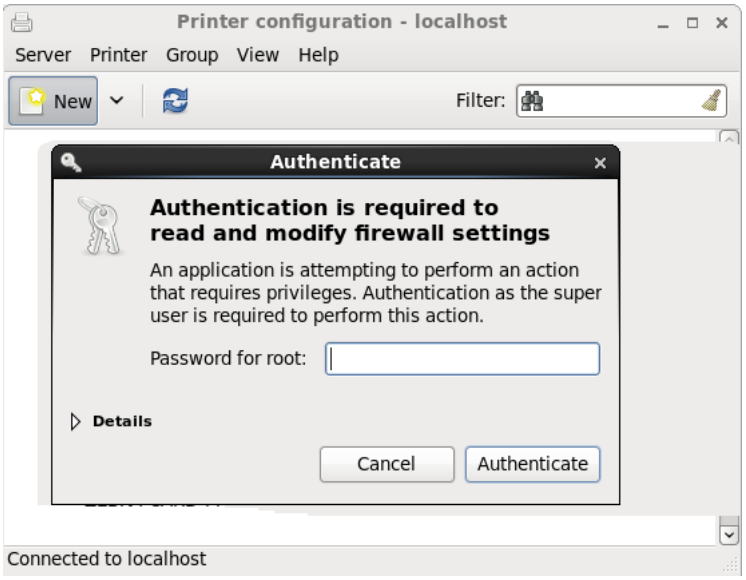
After the copying is complete, the final Install Jammer Wizard page shows that the driver has been installed successfully.

Unified Zebra ZXP Series 3 Card Printer Driver Setup
InstallJammer Wizard Complete
The InstallJammer Wizard has successfully installed Unified Zebra ZXP Series 3 Card Printer Driver. Click Finish to exit the wizard.
< Back
Finish
Cancel

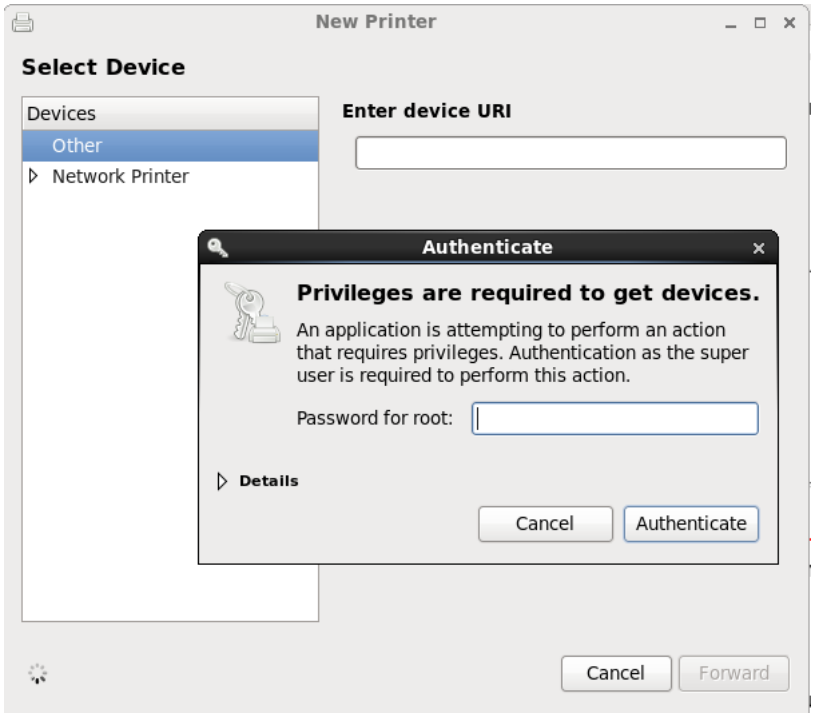
Click **Finish** into complete the installation and exit the Installer.

Adding a Printer Manually

To add the printer manually, select the menu System—Administration—Printing. The printer properties window will open. Select the **New** from the Printer properties as shown in below.

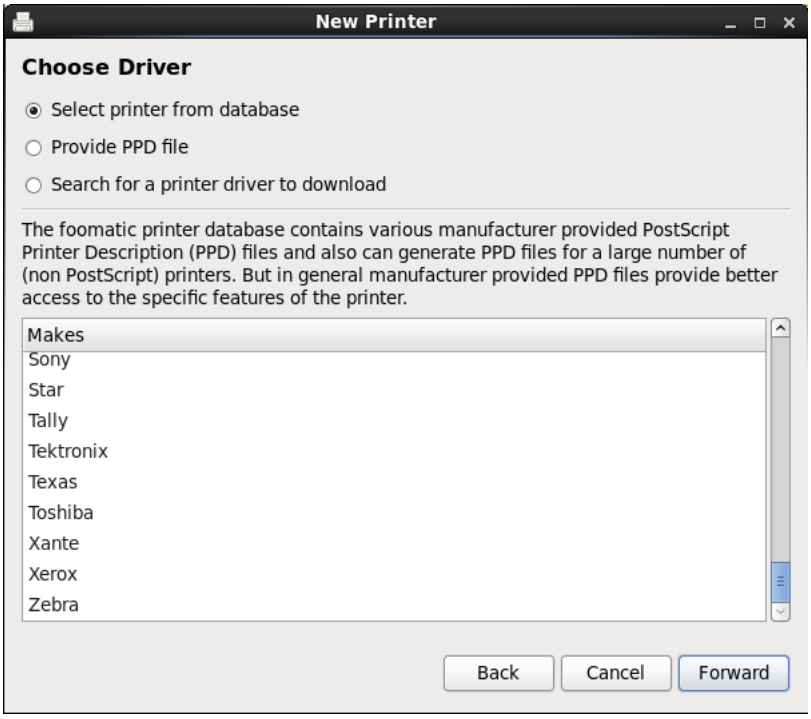

Printer configuration - localhost
Server Printer Group View Help
New
Filter:
Authenticate
Authentication is required to read and modify firewall settings
An application is attempting to perform an action that requires privileges. Authentication as the super user is required to perform this action.
Password for root:
Details
Cancel
Authenticate
Connected to localhost

Enter the root password. Then select the printer to install.

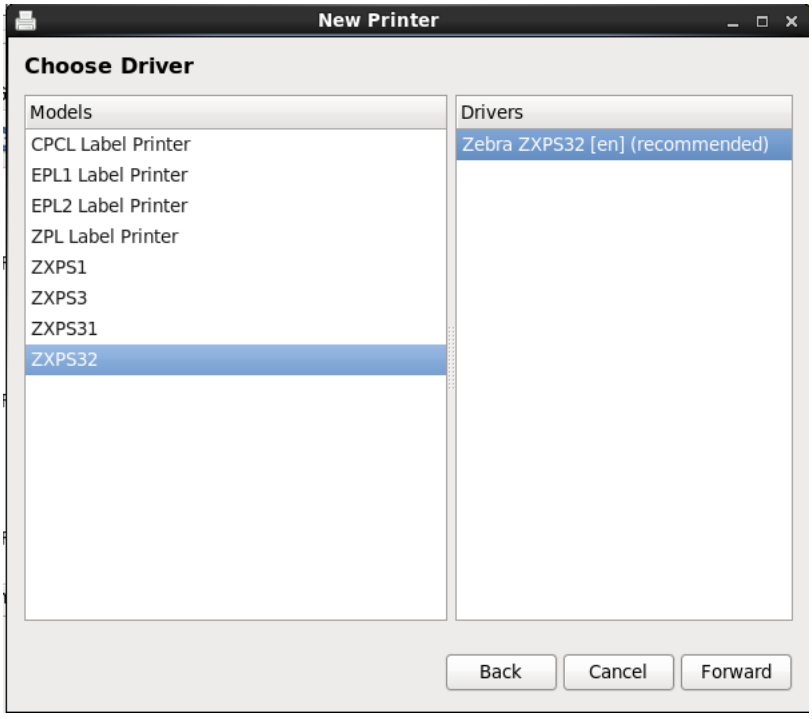


Select the printer to install and provide the root password if prompted.

Select the driver from the installed driver list.



Select the Zebra printer.



Click **Forward** to add the printer. The new printer will be updated in the Printer properties window.

Extracting files using Terminal

Launch the terminal by selecting Applications—System Tools—Terminal.

Locate the Zebra Linux Driver tar file: Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.x-Linux-x-Install.tar.gz.

Extract the Binary file using the following command:

tar -xvf Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.x-Linux-x-Install.tar.gz

Run the Installation inside the extracted directory using the following command:

su ./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86_64-Install

Proceed with the installation using the setup wizard.

Uninstall

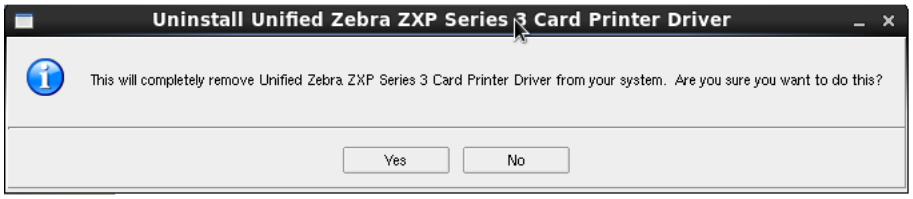
To Remove the Zebra ZXP Series 3 Printer Application:

Launch the terminal by selecting Applications—System Tools—Terminal.

Change the Directory: cd /usr/local/ZebraZXP3Driver

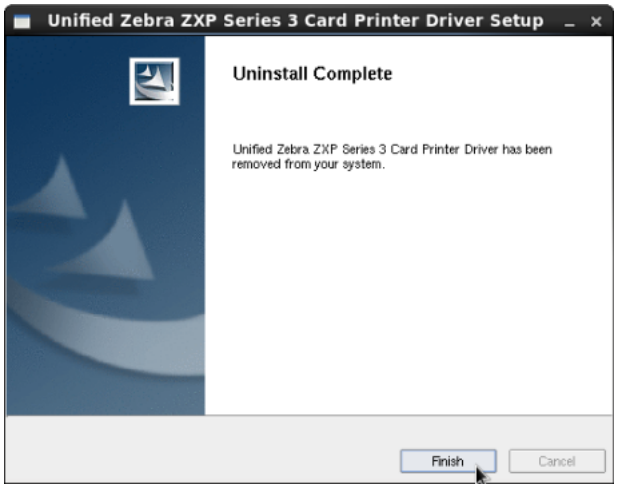
Run the Uninstall program using the following command:

./uninstall


Uninstall Unified Zebra ZXP Series 3 Card Printer Driver
This will completely remove Unified Zebra ZXP Series 3 Card Printer Driver from your system. Are you sure you want to do this?
Yes
No

Click **Yes** to continue, otherwise click **No** to cancel the uninstall.

Click OK.


Unified Zebra ZXP Series 3 Card Printer Driver Setup
Uninstall Complete
Unified Zebra ZXP Series 3 Card Printer Driver has been removed from your system.
Finish
Cancel

Click **Finish**.

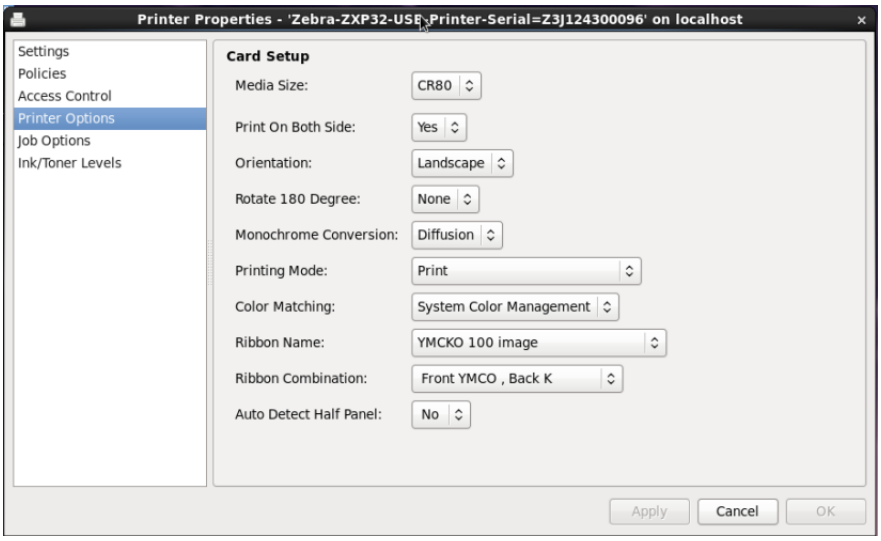
2

Setup

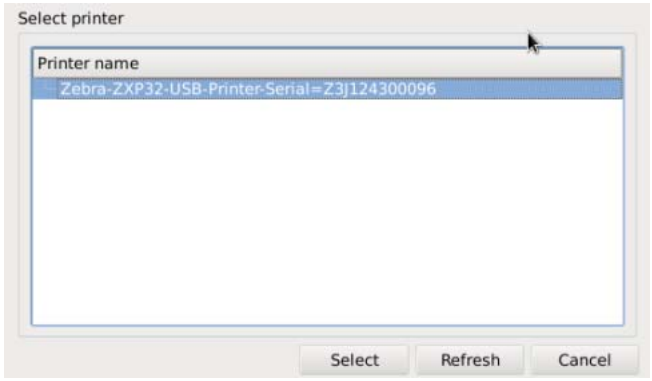
Note • The following instruction are for the USB interface. If you are using the Ethernet interface, the corresponding screens will refer to the Network Printer.

Printing Preferences

Go to the menu System—Administration—Printing to display all the available installed printers. Select the printer and click **Select** to open the Printer Preferences menu.

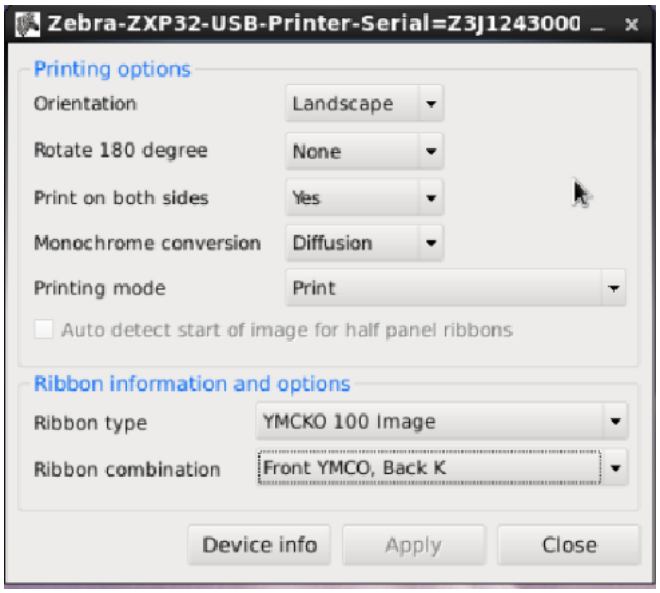


The Printing Preferences application will launch will display the available installed printers. Select the printer and click on the Select button to open the Printer Preferences page of the corresponding printer.



Select the Printer click **Select**.

Printer Options



- Orientation: Selection for portrait or landscape printing.
- Rotate 180 Degree: Selection for rotating the image 180°.
- Print on both sides: Selection for single-sided or dual-sided printing.
- Monochrome Conversion: Specifies the method of monochrome conversion used in printing. Different selections have different effects on the way the image is printed.
- Printing Mode: Sets the type of printing required:
  - Print
  - Encode only (Use this when magnetic encoding is the only function desired, printing will not occur).

- Print and Encode on same side.

- Ribbon type: The supported ribbons are displayed.
- Ribbon combinations: Are based on ribbon type; for example:
  - YMCKO 100 Images, YMCKO 200 Images, YMCKO 280 Images
    - Front YMCO, Back K
    - Front YMCKO, Back YMCKO
    - Front YMC, Back KO
    - Front YMCKO
  - 1/2 YMCKO 250,1/2 YMCKO 400
    - Front YMCO, Back K
    - Front YMCKO, Back YMCKO
    - Front YMC, Back KO
    - Front YMCKO
  - YMCKOK 165,YMCKOK 230
    - Front YMCKO, Back YMCKO
    - Front YMC, Back KO
    - Front YMCK ,Back K
    - Front YMCKO, Back K
    - Front YMCKO
  - YMCKOKO
    - Front YMCO ,Back K
    - Front YMCKO, Back YMCKO
    - Front YMC, Back KO
    - Front YMCK ,Back K
    - Front YMCKO, Back K
    - Front YMCKO, Back KO
    - Front YMCO ,Back KO
    - Front YMCK ,Back KO
    - Front YMCKO
  - 1/2 YMCKOKO 250
    - Front YMCO ,Back K
    - Front YMCKO, Back YMCKO
    - Front YMC, Back KO
    - Front YMCK, Back K
    - Front YMCKO, Back K
    - Front YMCKO, Back KO
    - Front YMCO ,Back KO
    - Front YMCK ,Back KO
    - Front YMCKO
  - K Resin
    - Front K / Back K

    - Front K
  - KDO 500 image, KDO 700 image
    - Front KdO /Back KdO
    - Front KdO
  - KRO 500 image, KRO 700 image
    - Front KrO / Back KrO
    - Front KrO
  - Std Mono chrome, High capacity mono chrome
    - Front K / Back K
    - Front K

- Auto detect Half panel: Insert the Half panel ribbon in to the printer Auto detects check box is checked automatically.

Device Info

- **Printer Model**: Displays the current Printer Model
- **FW Version**: Displays the Current firmware version in the Printer
- **Serial Number**: Displaying the Printer Serial Number
- **Ribbon Type**: Displaying the Current Ribbon Information
- **Head Resistance**: Displaying the Head Resistance Information
- **Mag Encode**: Mag encoding Option is support and Not supported Option
- **Panels Printed**: The number of Panels are printed status information.

- **Remaining Count**: The Ribbon Remaining count status information
- **Smart Card Type**: The smart card supported status information

Encoding Options

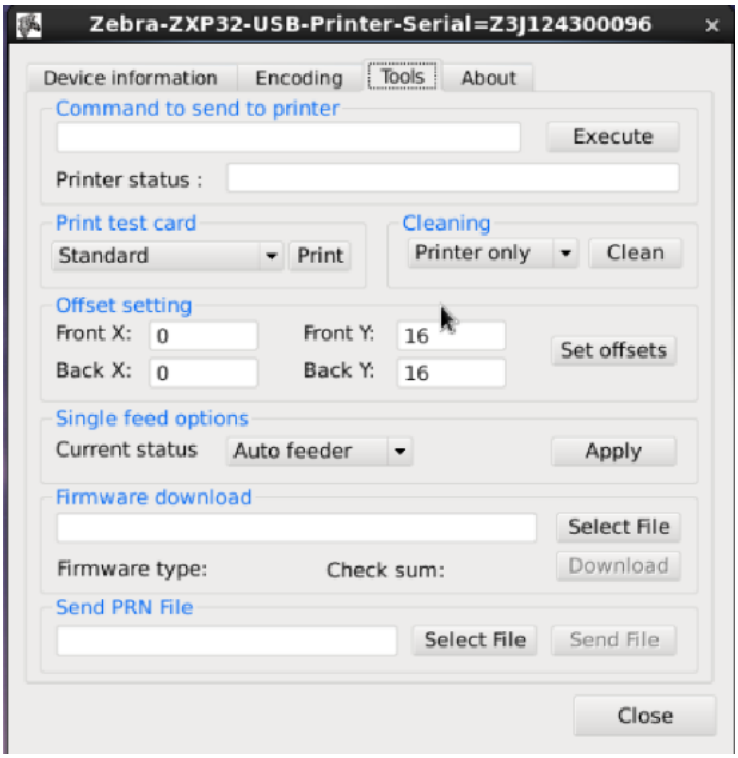
- **Track 1 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3
- **Track 1 Bit Density**: The following options are displayed.
  - 210 bpi
  - 75 bpi
- **Track 2 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3
- **Track 2 Bit Density**: The following options are displayed.
  - 210 bpi

  - 75 bpi
- **Track 3 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3
- **Track 3 Bit Density**: The following options are displayed.
  - 210 bpi
  - 75 bpi
- **Coercivity**: Select the type of coercivity of magnetic stripe cards to be used. The list of options is displayed.
  - High coercivity
  - Low coercivity
- **Encoding Position**: The default encoder position normal is displayed.
- **Encoder Type**: The default encoder Type ISO /jis is getting displayed..

Direct Encoding

- **Track 1**: Allowed Characters are $ ^ ( ) . / - <space> and Caps (Alphabets), Numeric. Length: 76
- **Track 2**: Allowed characters are Numbers and Symbol = and Length: 37
- **Track 3**: Allowed characters are Numbers and Symbol = and Length: 104
- **Encode**: Enter the Mag track value in the Text box field and click Encode Button
- **Read**: Encode the mag track details and insert the card in to the printer and click read button
- **Eject Card**: The card Eject from the Printer
- **Restore Defaults**: Settings are restored.
- **Apply**: Selected settings are applied successfully..

Tools



- **Command to send to printer**: Enter the command in the *Command to send to printer* text box and click *Execute*.
- **Print Test card**: The following options are displayed in the *Print Test card* drop-down list:
  - Standard
  - Encoder Parameters
  - Printer Parameters
- **Cleaning**: The following options are displayed in the cleaning drop-down list.
  - Printer Only
  - Magnetic Encoder
- **Offset Setting**: Enter the X and Y offset values and click the “Set Offset” button on the Offset setting. Test card should be printed with the change the printer offset value.
- **Single feed Options**: Current Status displays the current card feed method; choices are Card feeder, Single feeder slot, and Auto feed.
- **FW Download**: Browse and select the Firmware file and click download button the FW is downloading successfully.

- **Send PRN File**: Browse the Saved PRN file and click Send file file button. The PRN file Printed Successfully.

About

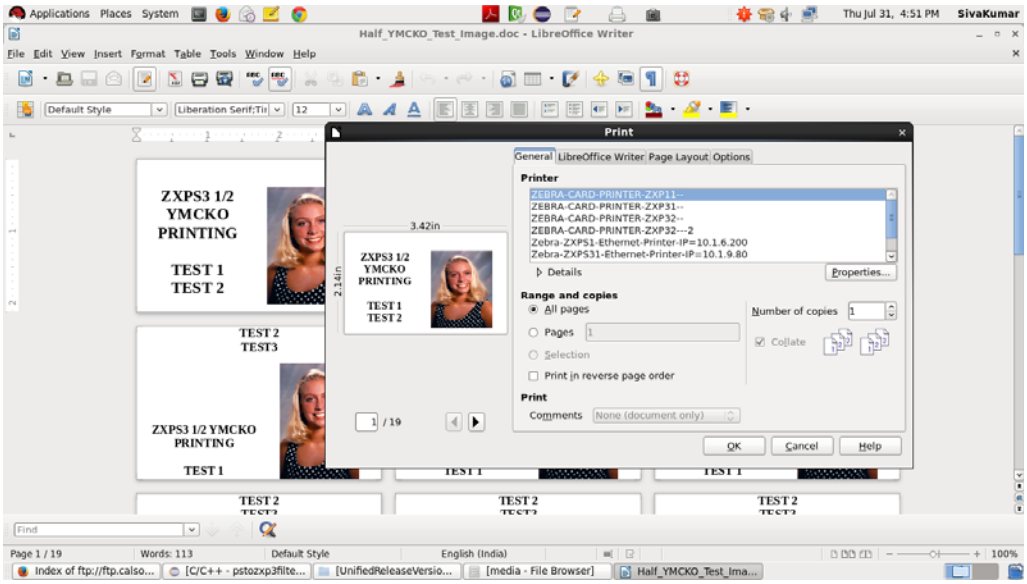
The *About* tab displays the Printer Model and Driver Version information.

Printer Properties: Test Print Card

The Printing Properties will list all the available printers. Right click on the available printer and select *Properties* and click *Test Print*.

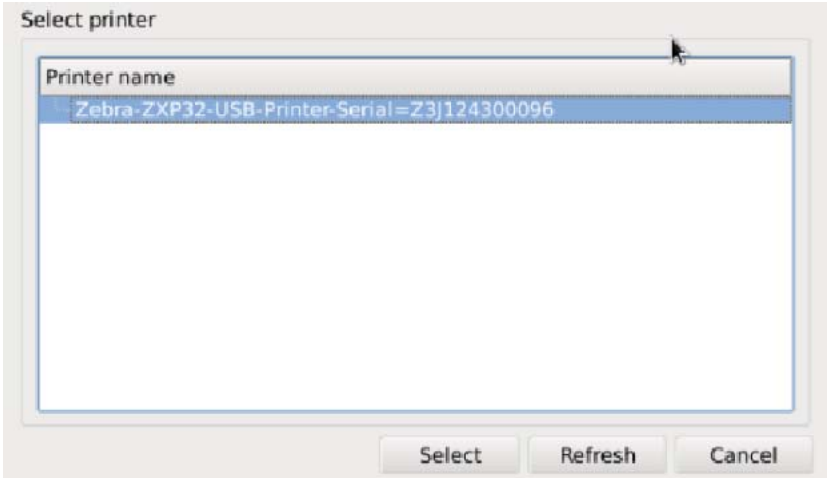
Printing From Libre Office

Open the suitable document. Click on the *File* menu and then select *Print*. Select the appropriate printer and click *Print*. The print job will be sent to the printer.

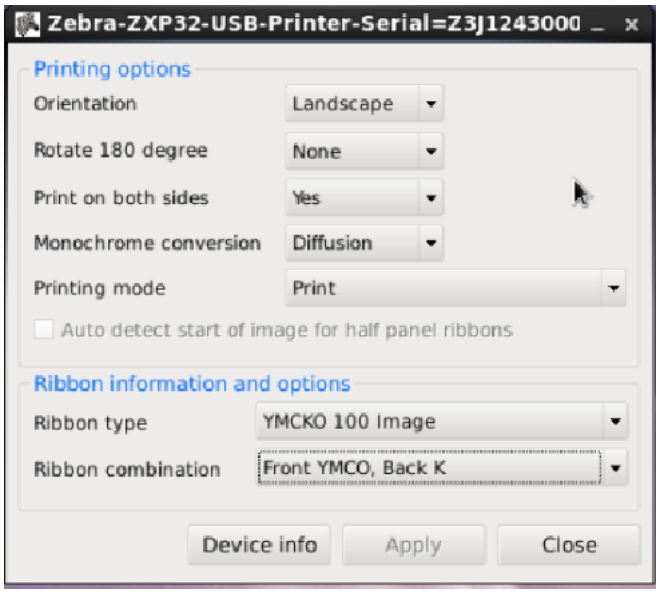


Changing Printer Options

To change the printer options go to Application—Zebra ZXPS 3 Printer Driver—Zebra ZXPS 3 Printer Driver Properties screen. The installed printers will be displayed; select the appropriate printer.

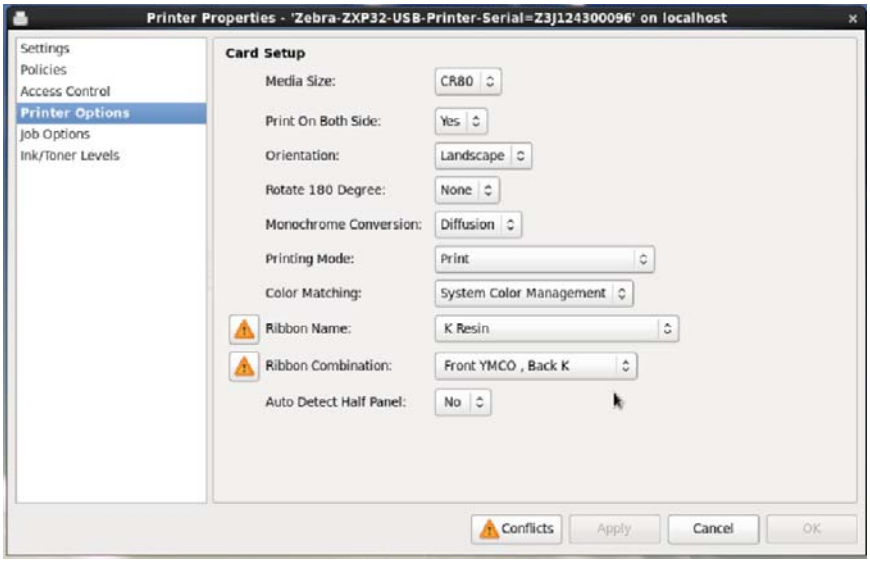


To change the printer options go to System Tools—Admin—Printing, then it will show the installed printers. From that select the appropriate printer. Then following screen will appear.



Select the appropriate printing option and click *Apply*; enter the root password to save the settings.

A warning icon will be displayed next to an incorrect setting. A warning dialog box will appear advising the user to correct the errors to be able to save the changes.



There are conflicting options.
Changes can only be applied after these conflicts are resolved.
Ribbon Name
Ribbon Combination
Close

3

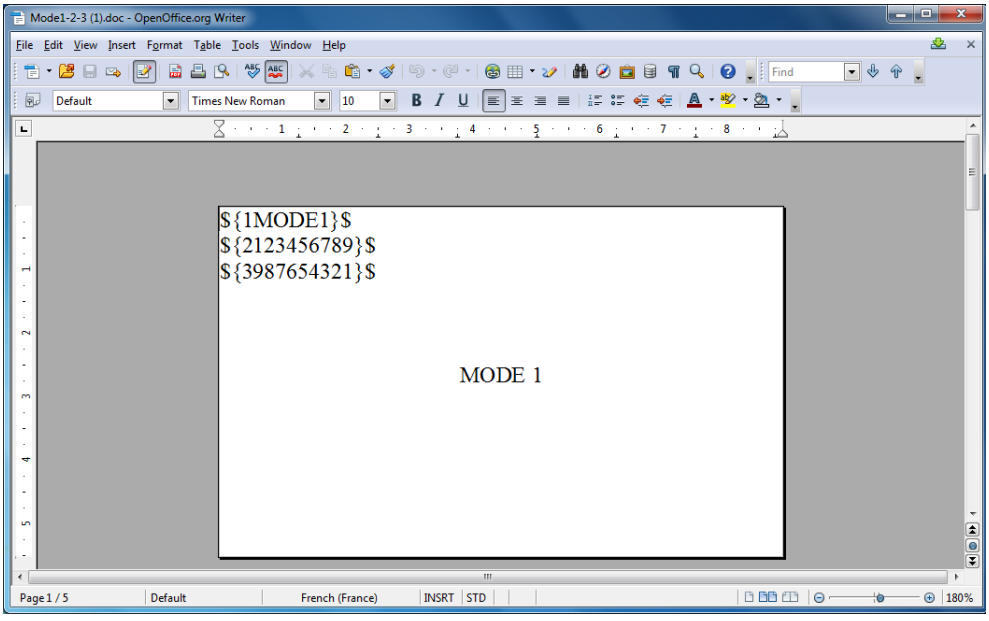
Magnetic Encoding

Introduction

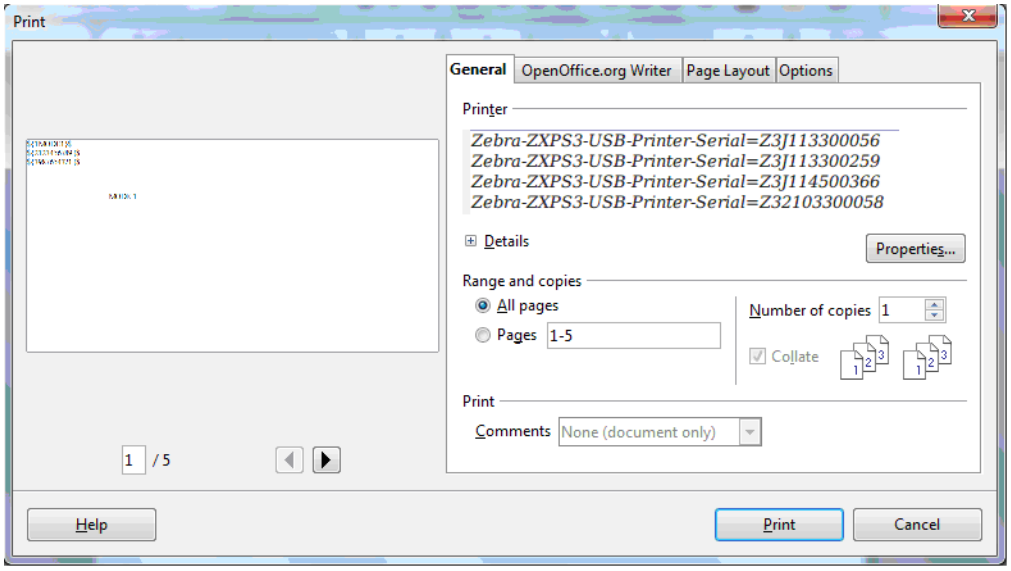
The purpose of this document is to describe how to perform magnetic encoding with the Zebra ZXP Series 1 and ZXP Series 3 printer driver for Linux, using Libre Office, in detail. The document provides information on magnetic encoding with ZXP Series 1 and ZXP Series 3 Printer on 32-bit and 64-bit Linux operating systems tested on RHEL 6.5 environment.

Magnetic Encoding Using Open Office

Open any existing document with magnetic encoding data or create a new document.

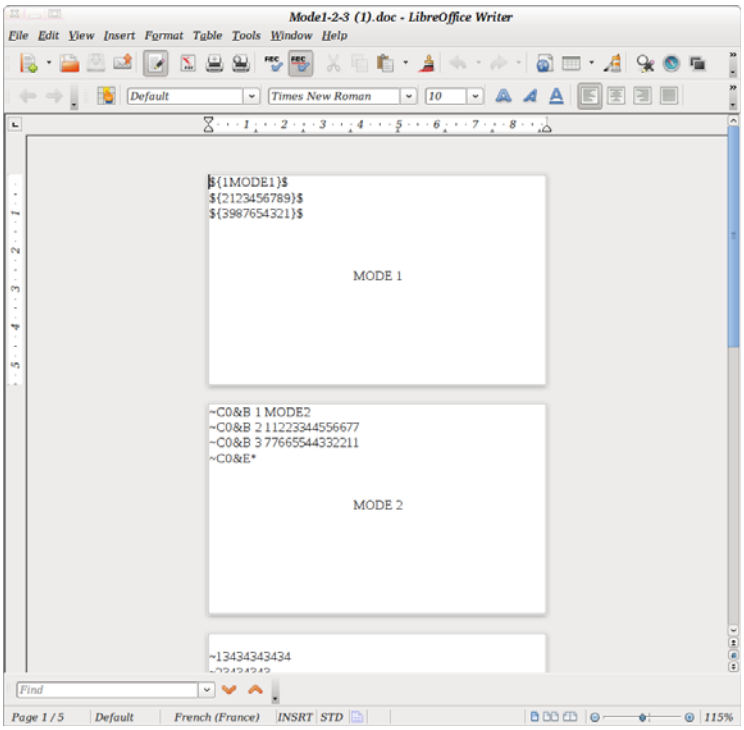


Click the *File* menu and select *Print*. Select the desired printer from the available printers list and print the document.

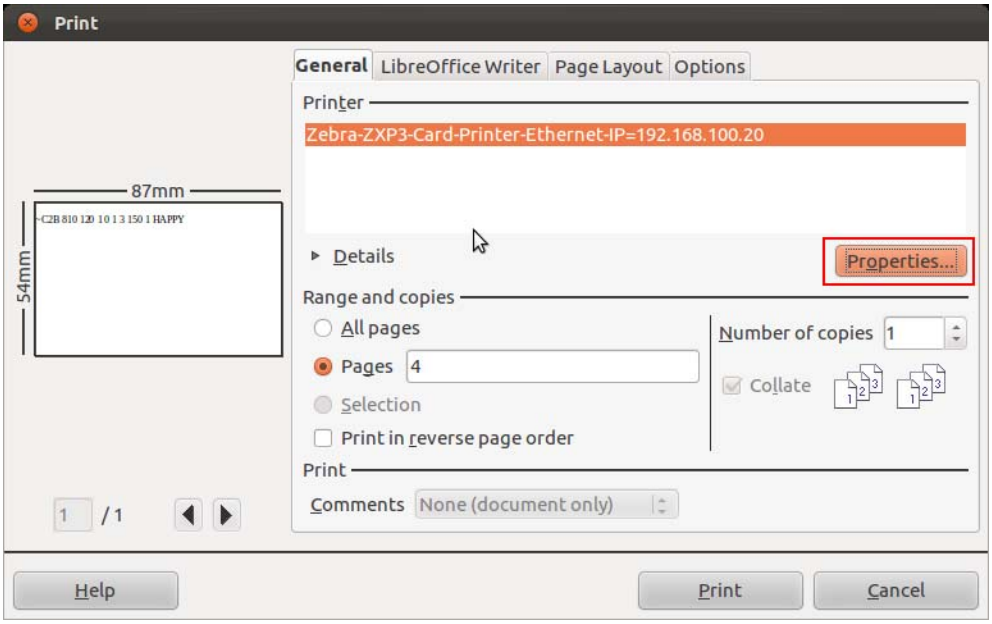


Magnetic Encoding Using Libre Office

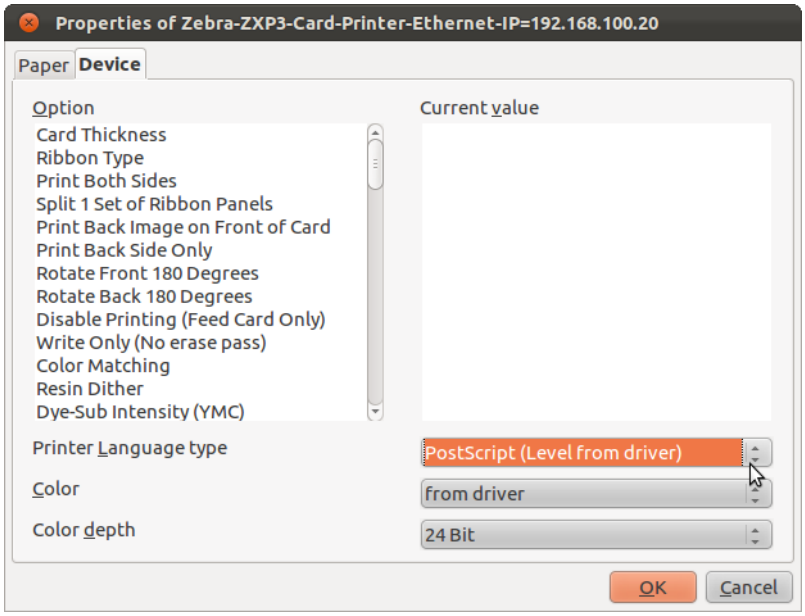
Open any existing document with magnetic encoding data or create a new document.



Click the *File* menu and select *Print*. Select the desired printer from the available printers list and click *Properties*.



Click the *Device* tab. From the *Printer Language type* drop-down select the *Post Script (Level from driver)* and click *OK*.



Note • In Open office the print job will use the Postscript Pre-filter but the Libre office uses the PDF Pre-filter. The PDF data is in encrypted format so we are not able to extract the Magnetic Encoding data from the file. In order to do the Magnetic encoding successfully using Libre Office the above setting is required.

Track 1 will accept only 76 characters. And it should accept Uppercase, Numbers and the special characters like " $,^,-,(,),space,.,/,

Track 2 will accept only 37 characters. It should accept only numbers and " = " sign.

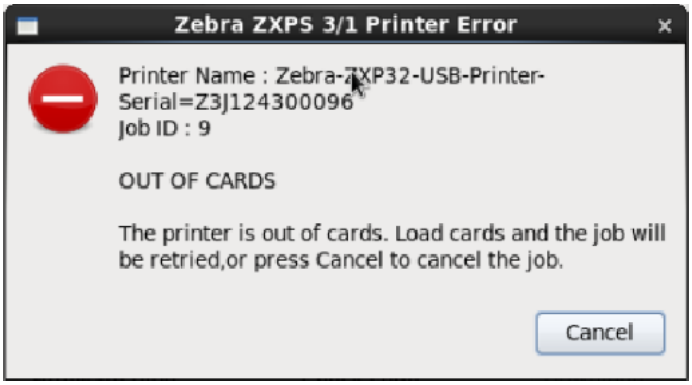
Track 3 will accept only 104 characters. It should accept only numbers and " = " sign.

4

Error Codes

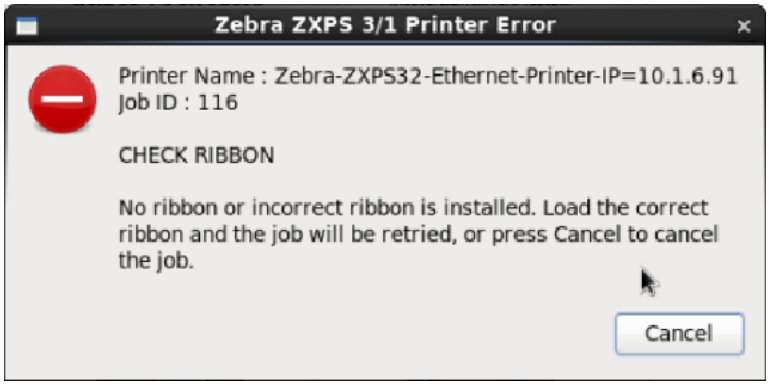
Out of Cards

The printer is out of cards. Load cards to continue the print job, or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 9
OUT OF CARDS
The printer is out of cards. Load cards and the job will be retried,or press Cancel to cancel the job.
Cancel

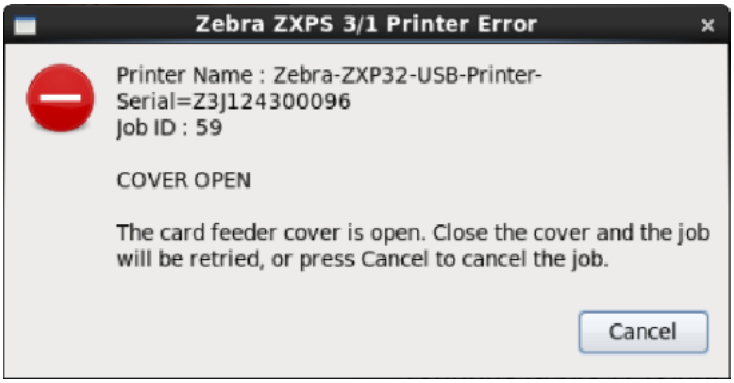
Check Ribbon

No ribbon or incorrect ribbon is installed. Load the correct ribbon to continue the print job. or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXPS32-Ethernet-Printer-IP=10.1.6.91
Job ID : 116
CHECK RIBBON
No ribbon or incorrect ribbon is installed. Load the correct ribbon and the job will be retried, or press Cancel to cancel the job.
Cancel

Cover Open

The card feeder cover is open. Close the cover to continue the print job. or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 59
COVER OPEN
The card feeder cover is open. Close the cover and the job will be retried, or press Cancel to cancel the job.
Cancel

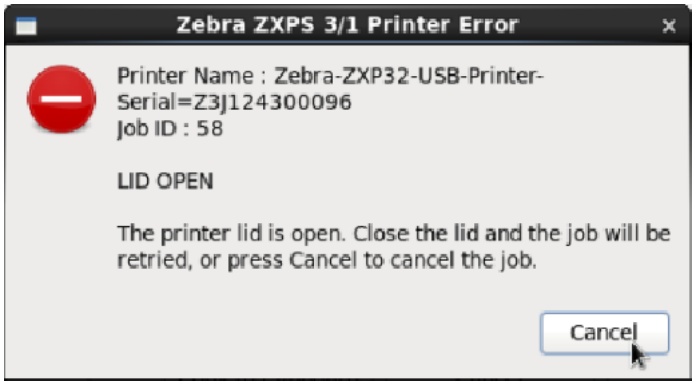
Encoding Error

The error has occurred during the Encoding process. Inspect the cards for proper type and orientation. Replace or re-orient as necessary to continue the print job. or click *Cancel* to cancel the job. If the problem persists, clean the magnetic encoder.

Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 42
ENCODING ERROR
An error has occurred during the Encoding process. Inspect the cards for proper type and orientation. Replace or re-orient as necessary and the job will be retried, or press Cancel to cancel the job.If the problem persists, clean the magnetic encoder.
Cancel

Lid Open

The printer lid is open. Close the lid to continue the print job. or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 58
LID OPEN
The printer lid is open. Close the lid and the job will be retried, or press Cancel to cancel the job.
Cancel

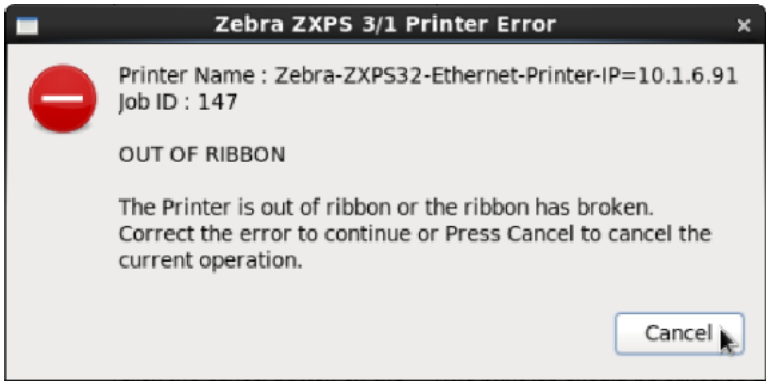
Mechanical Error

Check for evidence of Card Jam. Clear the error and press the printer button to continue the print job. or click *Cancel* to cancel the job.

Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 74
MECHANICAL ERROR!
Check for evidence of Card jam.Clear the error and press the printer button to continue.or Press Cancel to cancel the current operation.
Cancel

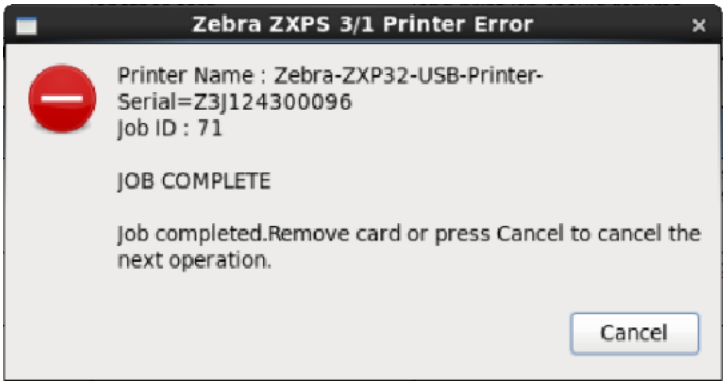
Out of Ribbon

The printer is out of ribbon or the ribbon has broken. Correct the error to continue the print job. or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXPS32-Ethernet-Printer-IP=10.1.6.91
Job ID : 147
OUT OF RIBBON
The Printer is out of ribbon or the ribbon has broken.
Correct the error to continue or Press Cancel to cancel the current operation.
Cancel

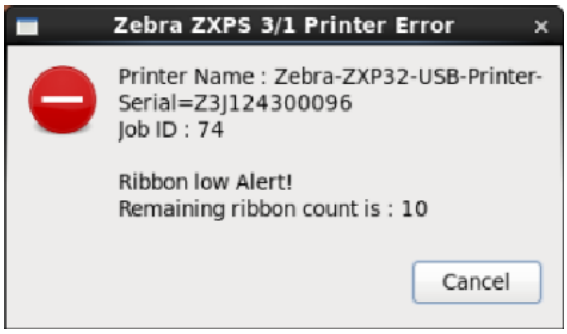
Job Complete

Job completed. Remove card to continue the print job. or click *Cancel* to cancel the job.


Zebra ZXPS 3/1 Printer Error
Printer Name : Zebra-ZXP32-USB-Printer-Serial=Z3J124300096
Job ID : 71
JOB COMPLETE
Job completed.Remove card or press Cancel to cancel the next operation.
Cancel

Low Ribbon

The alert is displayed in the when the Ribbon is low and needs to be replaced. Replace the ribbon to continue the print job. or click *Cancel* to cancel the job.



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